

SEQUENCE LISTING

<110> Biogen, Inc.
Kalled, Susan
Reid, Hugh

<120> Use of BCMA as an Immunoregulatory Agent

<130> 08201.0028-00304

<150> 60/358,427

<151> 2002-02-21

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1

Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser
1 5 10 15

Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
20 25 30

Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
35 40 45

Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
50 55 60

Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
65 70 75 80

Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
 85 90 95
 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
 100 105 110
 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
 115 120 125
 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
 130 135 140
 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
 145 150 155 160
 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
 165 170 175
 Ile Glu Lys Ser Ile Ser Ala Arg
 180

<210> 2

<211> 555

<212> DNA

<213> Homo Sapiens

<400> 2

atgttgacaga tggctgggca gtgctcccaa aatgaatatt ttgacagttt gttgcatgct
60tgcatacctt gtcaacttcg atgttcttct aatactcctc ctctaacatg tcagcggttat
120tgtaatgcaa gtgtgaccaa ttcagtgaag ggaacgaatg cgattctctg gacctgtttg
180ggactgagct taataatttc tttggcagtt ttcgtgctaa tgtttttgct aaggaagata
240agctctgaac cattaaagga cgagtttaaa aacacaggat caggtctcct gggcatggct
300aacattgacc tggaaaagag caggactggt gatgaaatta tttctccgag aggcctcgag
360tacacggtgg aagaatgcac ctgtgaagac tgcacaaaga gcaaaccgaa ggtcgactct
420gaccattgct ttccactccc agctatggag gaaggcgcaa ccattcttgt caccacgaaa
480

acgaatgact attgcaagag cctgccagct gctttgagtg ctacggagat agagaaatca

540

atttctgcta ggtaa
555

<210> 3

<211> 302

<212> PRT

<213> Homo sapiens

<400> 3

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15Gly Ser Thr Gly Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser
20 25 30Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln
35 40 45Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg Tyr Cys
50 55 60Asn Ala Ser Val Thr Asn Ser Val Lys Gly Val Asp Lys Thr His Thr
65 70 75 80Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
85 90 95Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
100 105 110Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
115 120 125Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
130 135 140Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
145 150 155 160Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
165 170 175Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
180 185 190

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
195 200 205

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
210 215 220

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
225 230 235 240

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
245 250 255

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
260 265 270

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
275 280 285

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
290 295 300

<210> 4

<211> 909

<212> DNA

<213> Homo sapiens

<400> 4

atggagacag acacactcct gttatgggtg ctgctgctct gggttccagg ttccactggg
60

gacgtcacga tgttgagat ggctgggcag tgctcccaa atgaatattt tgacagtttg
120

ttgcatgctt gcataccttg tcaacttcga tgttcttcta atactcctcc tctaacatgt
180

cagcgttatt gtaatgcaag tgtgaccaat tcagtgaag gagtcgacaa aactcacaca
240

tgcccaccgt gccagcacc tgaactcctg gggggaccgt cagtcttctt cttcccccca
300

aaacccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac
360

gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat
420

aatgccaaga caaagccgcg ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc
480

ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac

540

aaagccctcc cagcccccat cgagaaaacc atctccaaag ccaaagggca gccccgagaa
600

ccacaggtgt acaccctgcc cccatcccgg gatgagctga ccaagaacca ggtcagcctg
660

acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg
720

cagccggaga acaactacaa gaccacgcct cccgtgttgg actccgacgg ctcttcttc
780

ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc
840

tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccc
900

gggaaatga
909

<210> 5

<211> 21

<212> PRT

<213> Mouse

<400> 5

Met	Glu	Val	Gly	Trp	Tyr	Arg	Ser	Pro	Phe	Ser	Arg	Val	Val	His	Leu
1			5						10					15	

Tyr	Arg	Asn	Gly	Lys
			20	